

CLAIMS

- 5 1. A system for accurately delivering sterile fluids for use in a cosmetic
surgery procedure comprising:
- a strain gauge sensor;
- a container of sterile fluid connected to the strain-gauge sensor so that the strain-
gauge sensor will generate an electrical output proportional to the weight of the fluid and
10 container from time-to-time;
- a pump for pumping fluid from the container and having adjustable speed control
for delivery of fluids within the range of 30 ml/min to 1000 ml/min;
- a sterile tubing set connected to the fluid source and the pump for delivery of the
sterile fluid during the surgical procedure;
- 15 a processor for processing the electrical output from the strain gauge from time-
to-time to determine the amount of fluid delivered to the surgical procedure; and
- a display for displaying the amount of fluid delivered during the surgical
procedure.
- 20 2. The system of Claim 1 wherein the cosmetic surgery procedure is a
member of the group consisting of lipoplasty and the filling of breast implants or sizers.
3. The system of Claim 1 wherein the pump is a peristaltic pump.

4. The system of Claim 1 wherein the display includes a reset button that will
'zero' the display when pressed.
5. The system of Claim 1 wherein the tubing set is made of polyvinyl
5 chloride.
6. The system of Claim 1 wherein the display shows the amount of fluid in
either weight or volume.
- 10 7. The system of Claim 2 wherein the pump is a peristaltic pump.
8. The system of Claim 2 wherein the tubing set is made of polyvinyl
chloride.
- 15 9. The system of Claim 2 wherein the display shows the amount of fluid in
either weight or volume.

10. A method for accurately delivering sterile fluids for use in a cosmetic surgery procedure comprising:
- supporting a container of sterile fluid from a strain-gauge sensor so that the strain-
 - 5 gauge sensor provides an electronic signal indicative of the weight of the container and sterile fluid from time-to-time;
 - connecting one end of a sterile tubing set to the fluid container and passing the tubing set through a pump so that the pump can remove sterile fluid from the container within the range of 30 ml/min to 1000 ml/min;
 - 10 making the other end of the sterile tubing set available for delivery of the sterile fluid by the pump to the cosmetic surgery procedure;
 - activating the pump to pump fluid from the fluid source to the patient or the implantable device at a desired flow rate;
 - processing the electronic signal from the strain gauge to display the amount of
 - 15 sterile fluid removed from the container from time-to-time; and
 - monitoring the amount of sterile fluid pumped to the cosmetic surgery procedure;
 - releasing the pump activation when the desired amount of sterile fluid has been provided for the cosmetic surgery procedure.
- 20 11. The method of Claim 9 wherein the supporting of the container is accomplished by hanging the container from the strain-gauge.

12. The method of Claim 9 wherein the cosmetic surgery procedure is a member of the group consisting of lipoplasty and the filling of breast implants or sizers.

13. The method of Claim 9 wherein the pump is a peristaltic pump.

5

14. The method of Claim 9 wherein the tubing set is made of polyvinyl chloride.

15. The method of Claim 9 wherein the display shows the amount of fluid in
10 either weight or volume.

16. The method of Claim 12 wherein the pump is a peristaltic pump.

17. The method of Claim 12 wherein the tubing set is made of polyvinyl
15 chloride.

18. The method of Claim 12 wherein the display shows the amount of fluid in
either weight or volume.

20